

**From:** Parker, Frank L

**Sent:** Wednesday, July 06, 2011 7:27 AM

**To:** Parker, Frank L; [john.kotek@blueribboncommission.net](mailto:john.kotek@blueribboncommission.net)

**Subject:** RE: General comments on the three draft chapters and specific comments on Reactor and Fuel Cycle Technology Sub-Committees' Draft Report

Dear John,

I had meant to modify this recommendation "

### **COMMENTS ON THE REACTOR AND FUEL CYCLE TECHNOLOGY REPORT**

- 1. Table 5.** A comparison of the existing once-through, conventional light-water reactor fuel cycle with representative advanced nuclear energy systems in the long term, P. 34-36, is an interesting, if general, table. It could easily be made much more useful as shown in the attached table which puts the data into a generalized Multi-Attribute Utility Analysis framework. Because of the uncertainties in the data input, there also should be a sensitivity analysis of the data that would allow one to determine the relative value of each of the 4 methodologies. This input data is subjective but would, at least, allow one to see what is considered the relative ranking of the options as an aid to the discussion. Otherwise, one is left to sort out mentally 55 data entries and make some sense of them."

by adding "It would be usefull to make this methodology interactive so that the reader, if they wish, could add in his/her weightings and sensitivities to see how this might change the relative rankings."

Best personal wishes,

Frank